

# Work Order ID 111848

\*111848\*

Page 1

January-23-14 2:38:26 PM

Item ID: E4736-045 Accept \*N900040100\* Setup Start \*NS1\*  
 Revision ID: Stop \*NS2\*  
 Item Name: Fuel Filter Drain Line Assembly  
 Start Date: 24/01/2014 Start Qty: 5.00 \*5\* Cust Item ID:  
 Required Date: 28/02/2014 Req'd Qty: 5.00 \*5\* Customer:  
 Reference:

Approvals: Process Plan: MP Date: 140123 Tooling: Date: Run Start \*NR1\*  
 QC: Date: SPC (Y/N): Date: Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
E4736	

100		0.00							
*100*									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>22800</u>								

\*\*\*Fabricate as per dwg E4736\*\*\*

Purchase Part Number: E4736-1  
 Supplier: FIELD AVIATION  
 Certificate of conformity is required

110	Receive & Inspect for Damage & Mat'l Certs	0.00							
*110*									
Packaging	Memo	0.00							
Packaging									

CZ 14/01/2014 5

14/4/2 (5)

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td style="width: 25%;">Skid-tube <input type="checkbox"/></td> <td style="width: 25%;">Crosstube <input type="checkbox"/></td> <td style="width: 25%;">Water Jet <input type="checkbox"/></td> <td style="width: 25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Work Order ID 111848

January-23-14 2:38:26 PM

**\*111848\***

Page 2

Item ID:	E4736-045	Accept	<b>*N900040100*</b>	Setup	Start	<b>*NS1*</b>
Revision ID:					Stop	<b>*NS2*</b>
Item Name:	Fuel Filter Drain Line Assembly					
Start Date:	24/01/2014	Start Qty:	5.00			
Required Date:	28/02/2014	Req'd Qty:	5.00			
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	<b>*NR1*</b>
	QC:	Date:	SPC (Y/N):	Date:		Stop	<b>*NR2*</b>

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							
<b>*120*</b>									
QC	Memo	0.00							
Quality Control									
130	Identify as per dwg & Stock Location: _____	0.00							
<b>*130*</b>									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

~~5x~~ ~~APR 02 2014~~ ~~DAS~~ ~~28~~ ~~9-89~~

~~5x~~ ~~DAS~~ ~~28~~ ~~9-89~~ ~~APR 02 2014~~

~~14-04-3~~

*14-04-03*

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence
		<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

# Picklist Print

January-23-14 2:38:30 PM

Page 1

Work Order ID: 111848

**\*111848\***

Parent Item: E4736-045

**\*F4736-045\***

Parent Item Name: Fuel Filter Drain Line Assembly

Start Date: 24/01/2014

Required Date: 28/02/2014

Start Qty: 5.00

Required Qty: 5.00

Comments: IPP REV:A NEW ISSUE 14-01-22 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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E4736-045P

Purchased

No

Each

0.0000

5

**\*F4736-045P\***

Fuel Filter Drain Line Assembly

**\*\***

*Pcy/4/2 (5)*

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

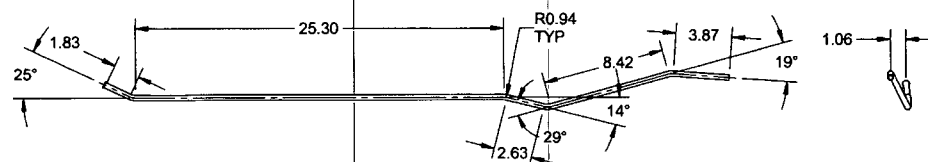
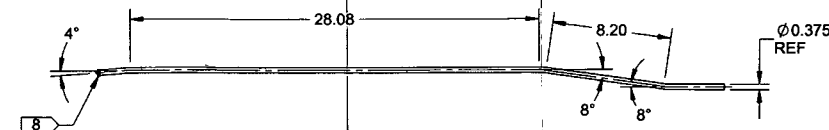
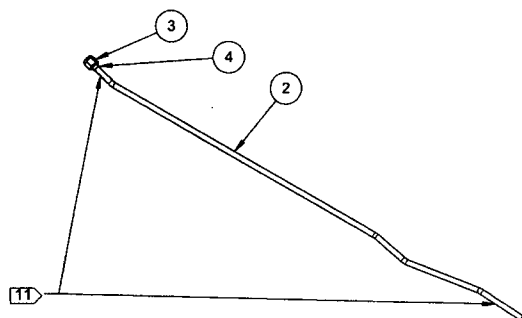
Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	E4736-041	DRAIN LINE ASSEMBLY
2	1	E4736-1	TUBE
3	1	AN818-6D	NUT COUPLING
4	1	MS20819-6J	SLEEVE COUPLING

BEND #	BEND RADIUS (IN)	DISTANCE FROM END (IN)	BEND ANGLE (DEG)	PITCH (DEG)
END A	-	0.00	-	-
1	0.94	1.79	23.0°	0.0°
2	0.94	27.77	16.0°	180.0°
3	0.94	30.79	33.0°	355.0°
4	0.94	39.66	23.0°	173.0°
END B - TL	-	44.03	-	-



### E4736-041 FUEL FILTER DRAIN LINE ASSEMBLY

#### NOTES:

- 1) MATERIAL: 6061-T4 ALUMINUM TUBING,  $\phi 0.375 \times 0.035$  WALL  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082  
OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T4T0.375W.035  
OR  
5052-O ALUMINUM ROUND TUBING,  $\phi 0.375 \times 0.035$  WALL  
PER AMS-WW-T-700/4 OR ASTM-B-210-02  
REF DART SPEC. M5052-OT0.375W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.17 lbs
- 8) FLARE TUBE PER MS33584
- 9) PRESSURE TEST TO 200 PSI
- 10) MARK LINE WITH BRADY B-999 "FUEL" & "DRAIN" TAPE IN LOCATIONS SHOWN

### E4736-1 TUBE

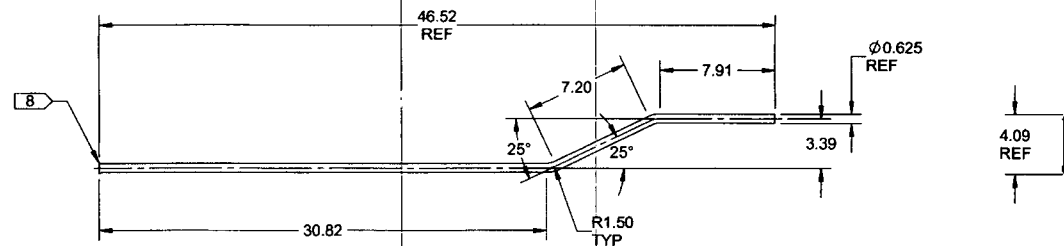
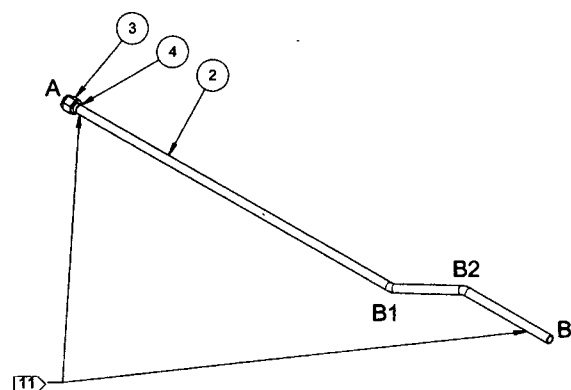
TELECOM  
2013-11-28

A		NEW ISSUE		DC	12.11.01
REV.		DESCRIPTION		BY	DATE
DESIGN		<b>EAGLE COPTERS LTD</b> CALGARY, ALBERTA, CANADA DRAWING NO. <b>E4736</b> TITLE <b>DRAIN LINE</b>		REV. A	
DRAWN				SHEET 1 OF 5	
CHECKED				SCALE	
MFG. APPR.	N/A			NTS	
APPROVED					
DE APPR.					
DATE	12.11.01	COPYRIGHT © 2012 BY EAGLE COPTERS LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLE COPTERS LTD.			

111848 NP  
14-2-23

ITEM NO.	QTY. -043	PART NUMBER	DESCRIPTION
1	X	E4736-043	DRAIN LINE ASSEMBLY
2	1	E4736-3	TUBE
3	1	AN818-10D	NUT COUPLING
4	1	MS20819-10J	SLEEVE COUPLING

BEND #	BEND RADIUS (IN)	DISTANCE FROM END (IN)	BEND ANGLE (DEG)	PITCH (DEG)
END A	-	0.00	-	-
1	1.50	30.29	23.0°	0.0°
2	1.50	38.61	21.0°	174.0°
END B - TL	-	47.20	-	-



### E4736-043 SERVICE DECK DRAIN LINE ASSEMBLY

### E4736-3 TUBE

#### NOTES:

- 1) MATERIAL: 6061-T4 ALUMINUM TUBING,  $\phi 0.625 \times 0.035$  WALL  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082  
OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T4T0.625W.035  
OR  
5052-O ALUMINUM ROUND TUBING,  $\phi 0.625 \times 0.035$  WALL  
PER AMS-WW-T-700/4 OR ASTM-B-210-02  
REF DART SPEC. M5052-OT0.625W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.42 lbs
- 8) FLARE TUBE PER MS33584
- 9) PRESSURE TEST TO 200 PSI
- 10) MARK LINE WITH BRADY B-999 "DRAIN" TAPE IN LOCATIONS SHOWN

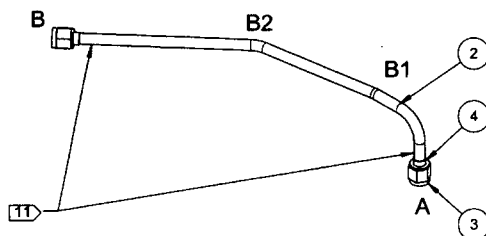
DESIGN		<b>EAGLE COPTERS LTD</b>	
DRAWN	<i>BC</i>	CALGARY, ALBERTA, CANADA	
CHECKED	<i>BC</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>E4736</b>	SHEET 2 OF 5
APPROVED	<i>BC</i>	TITLE	SCALE
DE APPR.		<b>DRAIN LINE</b>	NTS
DATE	12.11.01	<small>COPYRIGHT © 2012 BY EAGLE COPTERS LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLE COPTERS LTD.</small>	

**RELEASED**  
2013-11-28  
*md*

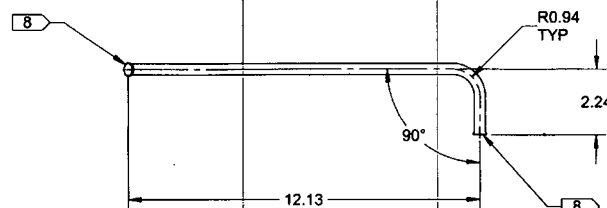
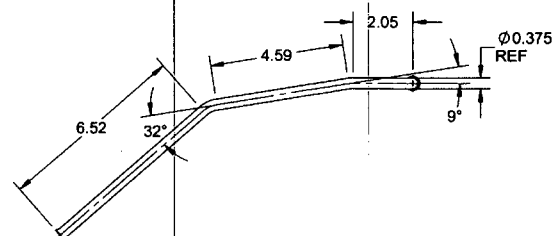


ITEM NO.	QTY. -045	PART NUMBER	DESCRIPTION
1	X	E4736-045	DRAIN LINE ASSEMBLY
2	1	E4736-5	TUBE
3	2	AN818-6D	NUT COUPLING
4	2	MS20819-6J	SLEEVE COUPLING

BEND #	BEND RADIUS (IN)	DISTANCE FROM END (IN)	BEND ANGLE (DEG)	PITCH (DEG)
END A	-	0.00	-	-
1	0.94	1.32	88.0°	0.0°
2	0.94	8.81	32.0°	275.0°
END B - TL	-	15.71	-	-



**E4736-045 FUEL FILTER DRAIN LINE ASSEMBLY**



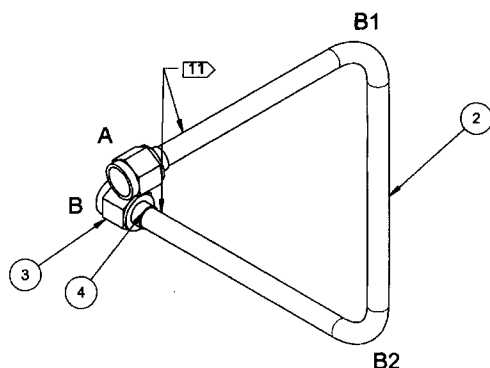
**E4736-5 TUBE**

**NOTES:**

- 1) MATERIAL: 6061-T4 ALUMINUM TUBING,  $\phi 0.375 \times 0.035$  WALL  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082  
OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T4T0.375W.035  
OR  
5052-O ALUMINUM ROUND TUBING,  $\phi 0.375 \times 0.035$  WALL  
PER AMS-WW-T-700/4 OR ASTM-B-210-02  
REF DART SPEC. M5052-OT0.375W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.10 lbs
- 8) FLARE TUBE PER MS33584
- 9) PRESSURE TEST TO 200 PSI
- 10) MARK LINE WITH BRADY B-999 "FUEL" & "DRAIN" TAPE IN LOCATIONS SHOWN

DESIGN		<b>EAGLE COPTERS LTD</b>	
DRAWN		CALGARY, ALBERTA, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>E4736</b>	SHEET 3 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>DRAIN LINE</b>	NTS
DATE	12.11.01	<small>COPYRIGHT © 2012 BY EAGLE COPTERS LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM EAGLE COPTERS LTD.</small>	

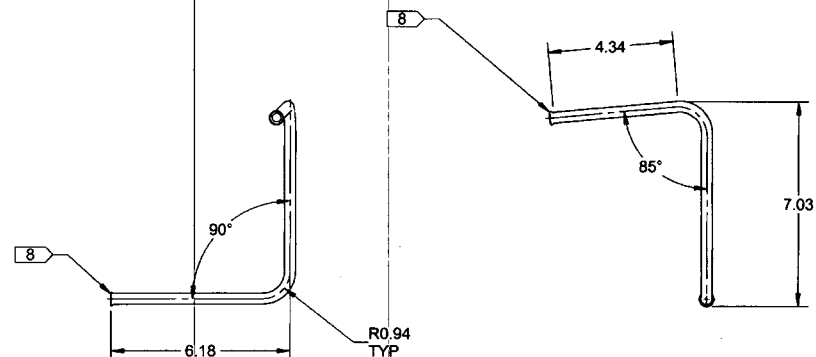
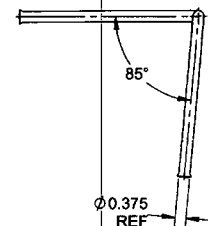
ITEM NO.	QTY. -047	PART NUMBER	DESCRIPTION
1	X	E4736-047	DRAIN LINE ASSEMBLY
2	1	E4736-7	TUBE
3	2	AN818-6D	NUT COUPLING
4	2	MS20819-6J	SLEEVE COUPLING



**E4736-047 VENT LINE ASSEMBLY**






**NOTES:**

- 1) MATERIAL: 6061-T4 ALUMINUM TUBING,  $\phi 0.375 \times 0.035$  WALL  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082  
OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T4T0.375W.035  
OR  
5052-O ALUMINUM ROUND TUBING,  $\phi 0.375 \times 0.035$  WALL  
PER AMS-VW-T-700/4 OR ASTM-B-210-02  
REF DART SPEC. M5052-OT0.375W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.09 lbs
- 8) FLARE TUBE PER MS33584
- 9) PRESSURE TEST TO 200 PSI
- 10) MARK LINE WITH BRADY B-999 "FUEL" & "VENT" TAPE IN LOCATIONS SHOWN



**E4736-7 TUBE**

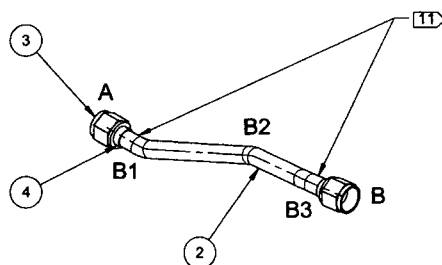
BEND #	BEND RADIUS (IN)	DISTANCE FROM END (IN)	BEND ANGLE (DEG)	PITCH (DEG)
END A	-	0.00	-	-
1	0.94	4.44	98.0°	0.0°
2	0.94	10.72	88.0°	275.0°
END B - TL	-	17.34	-	-

DESIGN		<b>EAGLE COPTERS LTD</b>	
DRAWN		CALGARY, ALBERTA, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>E4736</b>	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>DRAIN LINE</b>	NTS
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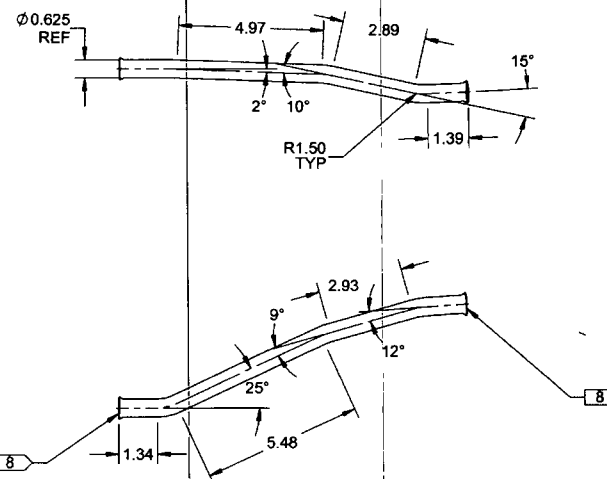
RELEASED  
2013-11-28

ITEM NO.	QTY. -049	PART NUMBER	DESCRIPTION
1	X	E4736-049	DRAIN LINE ASSEMBLY
2	1	E4736-9	TUBE
3	2	AN818-10D	NUT COUPLING
4	2	MS20819-10J	SLEEVE COUPLING

BEND #	BEND RADIUS (IN)	DISTANCE FROM END (IN)	BEND ANGLE (DEG)	PITCH (DEG)
END A	-	0.00	-	-
1	1.50	1.28	25.0°	0.0°
2	1.50	5.38	16.0°	278.0°
3	1.50	11.52	30.0°	150.0°
END B - TL	-	13.46	-	-



**E4736-049 SERVICE DECK DRAIN LINE ASSEMBLY**



**E4736-9 TUBE**

**NOTES:**

- 1) MATERIAL: 6061-T4 ALUMINUM TUBING,  $\phi 0.625 \times 0.035$  WALL  
PER WW-T-700/6 OR AMS 4080 OR AMS 4082  
OR QQ-A-200/8 OR QQ-A-225/8  
REF DART SPEC M6061T4T0.625W.035  
OR  
5052-O ALUMINUM ROUND TUBING,  $\phi 0.625 \times 0.035$  WALL  
PER AMS-WW-T-700/4 OR ASTM-B-210-02  
REF DART SPEC. M5052-OT0.625W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.13 lbs
- 8) FLARE TUBE PER MS33584
- 9) PRESSURE TEST TO 200 PSI
- 10) MARK LINE WITH BRADY B-999 "DRAIN" TAPE IN LOCATIONS SHOWN

RELEASED  
2013-11-23

DESIGN		<b>EAGLE COPTERS LTD</b>	
DRAWN		CALGARY, ALBERTA, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>E4736</b>	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>DRAIN LINE</b>	NTS
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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO22800

Purchase Order Date 1/27/2014

PO Print Date 2/4/2014

Page Number 2 of 3

**Order From :**

VC-FAC001

**Ship To :** DART AEROSPACE LTD

FIELD AVIATION COMPANY INC.  
UNIT # 125 4300-26TH ST N.E.  
CALGARY, ALBERTA, T1Y 7H7  
CANADA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 403-516-8200

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx PI collect

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

3	E4736-045P	Fuel Filter Drain Line Assembly	4/10/2014	5.00	\$396.35	\$1,981.75
			Yes	Each		
			4/10/2014			

FABRICATE AS PER DWG E4736 REV. A  
B111848

**Line Total:** \$1,981.75

4	E4736-047P	Vent Line Assembly	4/10/2014	5.00	\$396.35	\$1,981.75
			Yes	Each		
			4/10/2014			

FABRICATE AS PER DWG E4736 REV. A  
B111847

**Line Total:** \$1,981.75

5	E4736-049P	Service Deck Drain Line Assembly	4/10/2014	5.00	\$451.30	\$2,256.50
			Yes	Each		
			4/10/2014			

FABRICATE AS PER DWG E4736 REV. A  
B111846

**Note:**

2/4/2014



Field Aviation Company, Inc.  
Unit # 125  
4300 - 26th Street NE  
Calgary AB T1Y 7H7  
Phone: (403) 516-8200  
Fax: (403) 516-8317



SHIPPED APR 01 2014

Date: 4/1/14  
Customer #: 100310

Ship To #: 100310  
Order #: 3810 SO  
Branch/Plant: 101010

SOLD TO: Dart Aerospace  
1270 Aberdeer  
Hawkesbury ON  
K6A 1X7

SHIP TO: Dart Aerospace  
1270 Aberdeer  
Hawkesbury ON  
K6A 1X7

ORDER DATE	REQ'D BY	CUSTOMER PO	SHIP VIA
2014-01-27	2014-04-09	22800	Free On Board - Our Dock

LINE #	QTY ORD	QTY SHIP	ITEM #/ DRAW / REV	DESCRIPTION/ HS CODE	BATCH # / LOCATION
3.000	5	5	TUBE FABRICATION C/SMPL	TUBE FABRICATION	12496 MF-



  

Certification Clause:

I certify the items listed hereon have been fabricated, inspected and tested as applicable and conform to all specifications and requirements detailed in the contract or purchase order.

FABRICATED AS PER CUSTOMER SUPPLIED DWG  
LN 1 - PN: E4736-041P FUEL FILTER DRAIN LINE  
LN 2 - PN: E4736-043P SERVICE DECK DRAIN LINE  
LN 3 - PN: E4736-045P FUEL FILTER DRAIN LINE  
LN 4 - PN: E4736-047P VENT LINE ASSY  
LN 5 - PN: E4736-049P SERVICE DECK DRAIN LINE

Authorized Inspector:  

Date: 1 APR 2014

SHIPMENT AUTHORIZATION BY:	BUYER:	PACKED BY:	SHIPPED BY:	RECEIVED BY:
